OpenTRV is a device that lets you control the heating for each individual room of your house. It talks wirelessly to a radio controlled radiator valve and signals to another OpenTRV device connected to your boiler to turn it on and off. The controls of OpenTRV are very simple: there are two buttons, one for heating and the second for learning. The target reduction for the heating component of your energy bill is 50%. As OpenTRV only heats rooms when you ask for it or when it has learned to, it uses considerably less energy than a conventional whole house single thermostat.

DISCLAIMER

This is a prototype product. You do need to pay more attention to using it than with an average consumer product. There is no CE marking and the product has not been CE certified. You use this at your own risk and OpenTRV and the project contributors accept no liability for death, injury or loss. Blah blah blah. Lawyers love this stuff. IANAL.

MANIFEST

<<< photo >>>
<<< parts and description >>>

COMPATIBILITY LIST

<< more stuff >>

BEFORE LEAVING TO INSTALL CHECKLIST

1 Take sufficient (1 per radiator plus 1 spare):
    OpenTRV controllers
    Conrad valves
    USB PSUs
    Batteries, battery holders and clips
2 Nylon zip ties.
3 Sticky pads.

4 Spirit marker to write on plastics.
5 Zip close evidence bags.
6 Standard thermometer.

PRE INSTALLATION CHECKLIST

1 Help customer choose between comfort (20C) versus economy (17C) setting, using thermometer as a guide.
2 Help customer choose between battery and mains power.
3 Record feedback at this stage from customer regarding suitability, LEARN mode, uncommon use cases etc.
4 Fill in the installation record checklist (includes existing boiler settings)

INSTALLATION CHECKLIST

1 Take photo and record setting and location of existing TRV. Demonstrate how to remove/install existing TRV. Bag the existing TRV.
2 Install the Conrad valve and check the fitting for compatibility. Demonstrate how to install/remove Conrad valve. Observe and record the house code on the installation record sheet. Write the house code on the base of the Conrad valve and the back of the OpenTRV controller.
3 Program controller:
    C 0 (radiator controller) or C 4 (or higher for a boiler controller)
    house code with ZZZ
    clock for collecting stats
    <<< more needed >>>
4 If battery powered controller, remove jumper JZ.
5 Do the setup dance (see user guide).
6 Turn down existing house thermostat.
7 Install the SSR for the boiler unit.
8 Check that the boiler controller can hear all OpenTRV radiator controllers.
9 Leave a copy of this installation guide and the user guide with the customer.

INSTALLATION RECORD SHEET

1 Existing house thermostat: temperature setting
2 Existing TRVs: location of each and setting
3 Boiler: water temperature setting
4 Customer reactions and comments
5 Use cases